SITE NUMBER: CCL02514

SITE NAME: MAIN ST & BROWNSTONE RD

30 DELTA ROAD
OAKLEY, CA 94561
JURISDICTION: CITY OF OAKLEY
APN: 033-110-005

SITE TYPE: PREMANUFACTURED WALK-IN CABINET / WATER TANK

at&t

FA CODE: 15171305
USID#: 301082
PACE#: MRSFR068030

PROJECT DESCRIPTION

NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.

1. BRING POWER / TELCO / FIBER TO SITE LOCATION.
2. INSTALL AT&T APPROVED PREMANUFACTURED WALK-IN CABINET AND ASSOCIATED INTERIOR EQUIPMENT.
3. ADD STANDBY GENERATOR WITH FUEL TANK.
4. PROPOSED AT&T WATER TANK WITH ANTENNAS & ASSOCIATED TOWER-MOUNTED EQUIPMENT.
5. PROPOSED AT&T GPS ANTENNA.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1) 2019 CALIFORNIA ADMINISTRATIVE CODE
2) 2019 CALIFORNIA BUILDING CODE
3) 2019 CALIFORNIA ELECTRICAL CODE
4) 2019 CALIFORNIA MECHANICAL CODE
5) 2019 CALIFORNIA PLUMBING CODE
6) 2019 CALIFORNIA ENERGY CODE
9) 2019 CALIFORNIA FIRE CODE
11) 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
12) 2019 CALIFORNIA REFERENCE STANDARDS CODE

OCCUPANCY AND CONSTRUCTION TYPE

OCCUPANCY : U (UNOCCUPIED TELECOMMUNICATIONS FACILITY)

CONSTRUCTION TYPE: V-B

ACCESSIBILITY REQUIREMENTS

THIS IS AN UNOCCUPIED TELECOMMUNICATIONS FACILITY. ACCESSIBILITY FEATURES ARE NOT REQUIRED AS DESCRIBED BY 2019 CBC 11B-203.5, AND 11B-202.4 EXCEPTION 7.

PROJECT INFORMATION

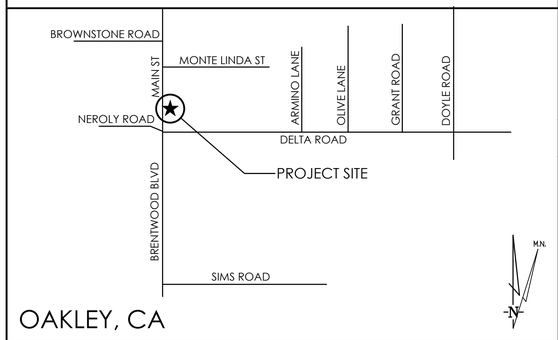
PROPERTY INFORMATION:

SITE NAME:	MAIN ST & BROWNSTONE RD
SITE NUMBER:	CCL02514
SITE ADDRESS:	30 DELTA ROAD OAKLEY, CA 94561
A.P.N. NUMBER:	033-110-005
CURRENT ZONING:	GENERAL COMMERCIAL
JURISDICTION:	CITY OF OAKLEY
LATITUDE:	N37° 58' 09.64" NAD 83
LONGITUDE:	W121° 41' 44.54" NAD 83
GROUND ELEVATION:	59.5 FT. AMSL

PROPERTY OWNER:
SUBURBAN PROPANE LP
P.O. BOX 206
WHIPPANY, NJ 07981

POWER AGENCY:
PACIFIC GAS & ELECTRIC
2225 FOLSOM ST.
SAN FRANCISCO, CA 94110

VICINITY MAP



OAKLEY, CA

PROJECT TEAM

APPLICANT / LESSEE:
AT&T
2600 CAMINO RAMON
SAN RAMON, CA 94583

CONSTRUCTION MANGER:
BECHTEL
5000 EXECUTIVE PARKWAY, STE 350
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CONTACT: SEAN WATSON
EMAIL: swatson5@bechtel.com
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RF ENGINEER:
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5001 EXECUTIVE PKWY,
SAN RAMON, CA 94583
CONTACT: SYED AHSAN MASHHOOD
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SURVEYOR:
GEIL ENGINEERING
1226 HIGH STREET
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CONTACT: DAN GEIL
PH: (530) 885-0426

ARCHITECT / ENGINEER:
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1520 RIVER PARK DRIVE
SACRAMENTO, CA 95815
CONTACT: MANUEL S. TSIHLAS
EMAIL: manuel@mstarchitects.com
PH: (916) 567-9630

SITE ACQUISITION:
COMPLETE WIRELESS CONSULTING, INC.
2009 V STREET
SACRAMENTO, CA 95818
CONTACT: RANDY MIKUNI
EMAIL: rmikuni@completewireless.net
PH: (916) 747-0624

ZONING MANAGER:
COMPLETE WIRELESS CONSULTING, INC.
2009 V STREET
SACRAMENTO, CA 95818
CONTACT: MACY HABIBEH
EMAIL: mhabibeh@completewireless.net
PH: (916) 224-8018

DIRECTIONS FROM AT&T

DIRECTIONS FROM AT&T's OFFICE AT 2600 CAMINO RAMON, SAN RAMON, CA

1. MERGE ONTO I-680 NORTH FROM BOLLINGER CANYON ROAD
2. CONTINUE ON I-680 NORTH
3. MERGE ONTO CA-242 NORTH
4. MERGE ONTO CA-4 EAST
5. TAKE EXIT 31 AND TURN LEFT ONTO LAUREL ROAD
6. TURN RIGHT ONTO MAIN STREET
7. TURN LEFT ONTO DELTA ROAD
8. TURN LEFT ONTO SITE ACCESS ROAD

APPROVALS

APPROVED BY:	INITIALS:	DATE:
AT&T:		
VENDOR:		
R.F.:		
LEASING / LANDLORD:		
ZONING:		
CONSTRUCTION:		
POWER / TELCO:		
PG&E:		

SHEET INDEX

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

DIGALERT
800-227-2600
Call 2 Full Working Days in Advance

Issued For:
CCL02514
MAIN ST & BROWNSTONE RD
30 DELTA ROAD
OAKLEY, CA 94561

PREPARED FOR
at&t
2600 Camino Ramon
San Ramon, California 94583

Vendor:
COMPLETE
Wireless Consulting, Inc.

AT&T SITE NO:	CCL02514
PROJECT NO:	162.2788
DRAWN BY:	TLS
CHECKED BY:	SV

REV	DATE	DESCRIPTION
	08/11/21	100% ZD REV 2
	07/13/21	100% ZD REV 1
	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

Licensee:

Architect:
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

GENERAL CONSTRUCTION NOTES:

1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.

4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.

7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.

8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.

10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.

11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.

12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.

13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

14. INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

APPLICABLE CODES, REGULATIONS AND STANDARDS:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.

THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
-IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

A.B.	ANCHOR BOLT
ABV.	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADD'L	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPRX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
AWG.	AMERICAN WIRE GAUGE
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
BTCW.	BARE TINNED COPPER WIRE
B.O.F.	BOTTOM OF FOOTING
B/U	BACK-UP CABINET
CAB.	CABINET
CANT.	CANTILEVER(ED)
C.I.P.	CAST IN PLACE
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
d	PENNY (NAILS)
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DWG.	DRAWING(S)
DWL.	DOWEL(S)
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMT.	ELECTRICAL METALLIC TUBING
E.N.	EDGE NAIL
ENG.	ENGINEER
EQ.	EQUAL
EXP.	EXPANSION
EXST.(E)	EXISTING
EXT.	EXTERIOR
FAB.	FABRICATION(OR)
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH(ED)
FLR.	FLOOR
FDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.S.	FINISH SURFACE
FT.(')	FOOT (FEET)
FTG.	FOOTING
G.	GROWTH (CABINET)
GA.	GAUGE
GI.	GALVANIZE(D)
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER
GLB. (GLU-LAM)	GLUE LAMINATED BEAM
GPS	GLOBAL POSITIONING SYSTEM
GRND.	GROUND
HDR.	HEADER
HGR.	HANGER
HT.	HEIGHT
ICGB.	ISOLATED COPPER GROUND BUS
IN. (")	INCH(ES)
INT.	INTERIOR
LB.(#)	POUND(S)
L.B.	LAG BOLTS
L.F.	LINEAR FEET (FOOT)
L.	LONG(ITUDINAL)
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PLY.	PLYWOOD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PWR.	POWER (CABINET)
QTY.	QUANTITY
RAD.(R)	RADIUS
REF.	REFERENCE
REINF.	REINFORCEMENT(ING)
REQ'D/	REQUIRED
RGS.	RIGID GALVANIZED STEEL
SCH.	SCHEDULE
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATIONS
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
THK.	THICK(NESS)
T.N.	TOE NAIL
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.G.	UNDER GROUND
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
W	WIDE (WIDTH)
w/	WITH
WD.	WOOD
W.P.	WEATHERPROOF
WT.	WEIGHT
℄	CENTERLINE
ℙ	PLATE, PROPERTY LINE

SYMBOLS LEGEND

- BLDG. SECTION (1 / A-300)
- WALL SECTION (A5 / A-310)
- DETAIL (D5 / A-500)
- ELEVATION (C1, A4, C4, A1 / A-113)
- DOOR SYMBOL (001)
- WINDOW SYMBOL (10)
- TILT-UP PANEL MARK (3)
- PROPERTY LINE
- CENTERLINE
- ELEVATION DATUM (10')
- GRID/COLUMN LINE (A)
- KEYNOTE, DIMENSION ITEM (3)
- KEYNOTE, CONSTRUCTION ITEM (2)
- WALL TYPE MARK (W-3)
- ROOM NAME, ROOM NUMBER (OFFICE 101)
- GROUT OR PLASTER
- (E) BRICK
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- PLYWOOD
- SAND
- PLYWOOD
- SAND
- (E) STEEL
- MATCH LINE
- GROUND CONDUCTOR
- OH — OVERHEAD SERVICE CONDUCTORS
- Tel — TELEPHONE CONDUIT
- Pwr — POWER CONDUIT
- Coax — COAXIAL CABLE
- CHAIN LINK FENCE
- WOOD FENCE
- (P) ANTENNA
- (P) RRU
- (P) DC SURGE SUPRESSION
- (F) ANTENNA
- (F) RRU
- (E) EQUIPMENT

Issued For:
CCL02514
MAIN ST & BROWNSTONE RD
30 DELTA ROAD
OAKLEY, CA 94561

PREPARED FOR
at&t
2600 Camino Ramon
San Ramon, California 94583

Vendor:
COMPLETE Wireless Consulting, Inc.

AT&T SITE NO:	CCL02514
PROJECT NO:	162.2788
DRAWN BY:	XX
CHECKED BY:	XX

REV	DATE	DESCRIPTION
	08/11/21	100% ZD REV 2
	07/13/21	100% ZD REV 1
	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

Licensee:

Architect:
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
GENERAL NOTES, ABBREVIATIONS, & LEGEND

SHEET NUMBER:
GN-1

Environmental Noise Assessment

CCL02514 AT&T Cellular Facility

Oakley, California

BAC Job # 2021-116

Prepared For:

Complete Wireless Consulting

Attn: Steve Proo
2009 V Street
Sacramento, CA 95818

Prepared By:

Bollard Acoustical Consultants, Inc.

Dario Gotchet, Senior Consultant

June 30, 2021

Bollard Acoustical Consultants, Inc. ● 3551 Bankhead Road, Loomis, CA 95650 ● Phone: (916) 663-0500 ● bacnoise.com

Introduction

The CCL02514 AT&T Wireless Unmanned Telecommunications Facility (project) proposes the installation of cellular equipment within a lease area located at 30 Delta Road in the City of Oakley, California (APN: 033-110-005). The externally mounted HVAC unit of a pre-manufactured concrete walk-in cabinet and an emergency diesel standby generator have been identified as the primary noise sources associated with the project. The proposed project site location is shown on Figure 1. The studied site design is dated May 20, 2021.

Bollard Acoustical Consultants, Inc. has been contracted by Complete Wireless Consulting, Inc. to complete an environmental noise assessment regarding the proposed project cellular equipment operations. Specifically, the following assessment addresses daily noise production and exposure associated with operation of the project emergency generator and HVAC equipment.

Please refer to Appendix A for definitions of acoustical terminology used in this report. Appendix B illustrates common noise levels associated with various sources.

Criteria for Acceptable Noise Exposure

City of Oakley General Plan

The Noise Element of the City of Oakley General Plan establishes noise standards for non-transportation (stationary) noise sources, such as those proposed by the project. The General Plan requires that the noise level standards, provided below in Table 1, be applied immediately within the property line of noise-sensitive land uses.

Table 1
Noise Level Performance Standards for New Projects
Affected by or Including Non-Transportation Noise Sources

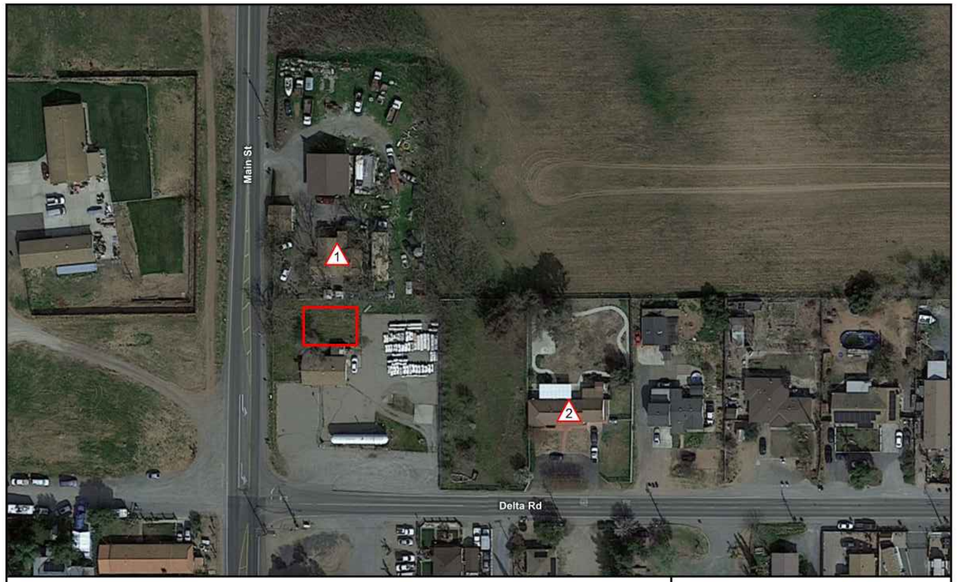
Noise Level Descriptor	Daytime (7 a.m. to 10 p.m.)	Nighttime (10 p.m. to 7 a.m.)
Hourly L_{eq}	55	45

[1] Each of the noise levels specified above shall be lowered by five dB for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises (e.g., humming sounds, outdoor speaker systems). These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings).

Source: City of Oakley General Plan, Noise Element, Table 9-1

Project Noise Generation

As discussed previously, there are two project noise sources which are considered in this evaluation: the externally mounted HVAC unit of the pre-manufactured concrete walk-in cabinet and the emergency diesel generator. The evaluation of potential noise impacts associated with the operation of each noise source is evaluated separately as follows:



Legend

Proposed AT&T Cellular Equipment Lease Area (Approximate)

Noise-Sensitive Receivers (Residences)

N

Scale (Feet)
0 50 100

CCL02514 AT&T Cellular Facility
City of Oakley, California

Proposed Cellular Facility Lease Area
& Nearest Noise-Sensitive Receivers

Figure 1

BOLLARD Acoustical Consultants

HVAC Equipment Noise Source and Reference Noise Level

The project proposes the installation of a pre-manufactured concrete walk-in cabinet equipped with one (1) externally mounted HVAC unit within the equipment lease area illustrated on Figure 1. According to the project site plans, the HVAC unit assumed for installation at this site is a Marvair Airxcel, Inc. Model ECUA18ACA. Based on reference noise level data obtained from the manufacturer (Marvair Airxcel, Inc.), this specific HVAC unit model has a reference noise level of 62 dB at a distance of 5 feet. The manufacturer's noise level data specification sheet for the proposed HVAC equipment is provided as Appendix C.

Generator Noise Source and Reference Noise Level

The project also proposes the installation of an emergency standby diesel generator within the lease area to maintain cellular service during emergency power outages. Based on the project site plans, the generator assumed for installation at this site is a Generac Industrial Power Systems Model SD030. It is further assumed that the proposed generator will be equipped with the Level 2 Acoustic Enclosure resulting in a reference noise level of 68 dB at a distance of 23 feet. The manufacturer's noise level data specification sheet for the proposed generator and acoustical enclosure is provided as Appendix D.

The generator which is proposed at this site would only operate during emergencies (power outages) and brief daytime periods for periodic maintenance/lubrication. According to the project applicant, testing of the generator would occur twice per month, during daytime hours only, for a duration of approximately 15 minutes. The emergency generator would not operate at night, except during power outages.

Predicted Facility Equipment Noise Levels at Nearest Noise-Sensitive Uses

The nearest noise-sensitive uses have been identified as residences to the north and east of the project, identified as receivers 1 and 2 on Figure 1. The proposed project equipment maintains various distances from the property lines of receivers 1 and 2. Those distances were scaled using the provided site plans. Assuming standard spherical spreading loss (-6 dB per doubling of distance), project-equipment noise exposure at the property lines of the nearest noise-sensitive receivers (residences) was calculated and the results of those calculations are presented below in Table 2.

Table 2
Summary of Project-Related Noise Exposure at the Nearest Noise-Sensitive Uses

	Distance from Equipment (ft)[2]		Predicted Equipment Noise Levels, L_{eq} (dBA)	
Receiver[1]	HVAC	Generator	HVAC	Generator
1	30	15	41	72
2	135	125	28	53

[1] Residential receiver locations are illustrated on Figure 1.
[2] Distances scaled from equipment to receiver property lines using the provided site plans.
Source: Bollard Acoustical Consultants, Inc. (2021)

Because the proposed HVAC unit could potentially be in operation during nighttime hours, the operation of the HVAC unit would be subject to the City of Oakley General Plan *nighttime* noise level standard of 45 dB L_{eq} (Table 1). As indicated in Table 2, the predicted HVAC equipment noise levels of 28 to 41 dB L_{eq} at the property lines of the nearest residential receivers would satisfy the General Plan 45 dB L_{eq} nighttime noise level limit. As a result, no further consideration of HVAC equipment noise mitigation measures would be warranted for the project.

Project representatives have indicated that the proposed generator would be in operation for routine testing and maintenance twice a month during daytime hours for no more than 15 minutes and would only operate at night during emergencies. Because the project generator would only operate during daytime hours for brief periods required for testing and maintenance, the operation of the generator would be subject to the City of Oakley General Plan *daytime* noise level standard of 55 dB L_{eq}. As shown in Table 2, project generator noise level exposure is predicted to exceed the General Plan 55 dB L_{eq} daytime noise level standard at the property line of the residential receiver 1. As a result, additional consideration of emergency generator noise mitigation measures would be warranted for the project.

Mitigation Measures

Project generator noise levels are predicted to exceed the City of Oakley General Plan 55 dB L_{eq} daytime noise level standard at the property line of the residential receiver 1 by 17 dB. To mitigate the identified exceedance to a state of compliance with the City's noise level standard, the combination of a custom acoustic enclosure for the project generator and construction of a solid noise barrier along the perimeter of the facility lease area would be required. The location of the noise barrier is illustrated on Figure 2. The calculated mitigated generator noise levels resulting from the implementation of a custom enclosure and lease area noise barrier at the property line of receiver 1 are provided below in Table 3.

Table 3
Summary of Generator Noise Exposure at Receiver 1 Property Line – Mitigated[1]

Barrier Height (ft)	Transmission Loss from Custom Enclosure (dB)							
	24	23	22	21	20	19	18	17
6	55	56	57	58	59	60	61	62
7	53	54	55	56	57	58	59	60
8	51	52	53	54	55	56	57	58
9	49	50	51	52	53	54	55	56
10	48	49	50	51	52	53	54	55

[1] Red = barrier height & enclosure transmission loss combination would satisfy 55 dB Leq daytime noise standard
Source: Bollard Acoustical Consultants, Inc. (2021)

The data presented in Table 3 indicate the resulting (mitigated) generator noise levels at the property line of receiver 1 associated with the construction of a noise barrier around the facility lease area and the implementation of a custom engineered generator enclosure. The required barrier height is ultimately dependent upon the degree of exterior to interior transmission loss provided by the recommended custom engineered generator enclosure. In addition, the

enclosure design should include sound absorbing panels on the interior wall and ceiling surfaces of the equipment shelter and should include a suitable engine exhaust muffler.

The noise barrier could consist of a dog-ear wood (or wood composite) fence with overlapping slat construction. The purpose of overlapping slats (and using screws rather than nails) is to ensure that prolonged exposure to the elements does not result in visible gaps through the slats which would result in reduced noise barrier effectiveness. Alternatively, lining the inside of a (height dependant) chain link fence with acoustic curtains at the location shown on Figure 2 would also serve as a sufficient noise barrier. If suspended acoustic curtains are installed on said chain link fence, an acoustical vinyl product with a minimum STC (Sound Transmission Class) rating of 28 should be considered. An example of such a product can be found at http://www.acoustiblok.com/acoustical_fence.php. Appendix E illustrates the use of an acoustical vinyl curtain at a photovoltaic inverter facility.

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at&t

2600 Camino Ramon
San Ramon, California 94583

Vendor:

COMPLETE Wireless Consulting, Inc.

AT&T SITE NO:	CCL02514
PROJECT NO:	162.2788
DRAWN BY:	TLS
CHECKED BY:	TST

REV	DATE	DESCRIPTION
	08/11/21	100% ZD REV 2
	07/13/21	100% ZD REV 1
	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

Licensee:

Architect:

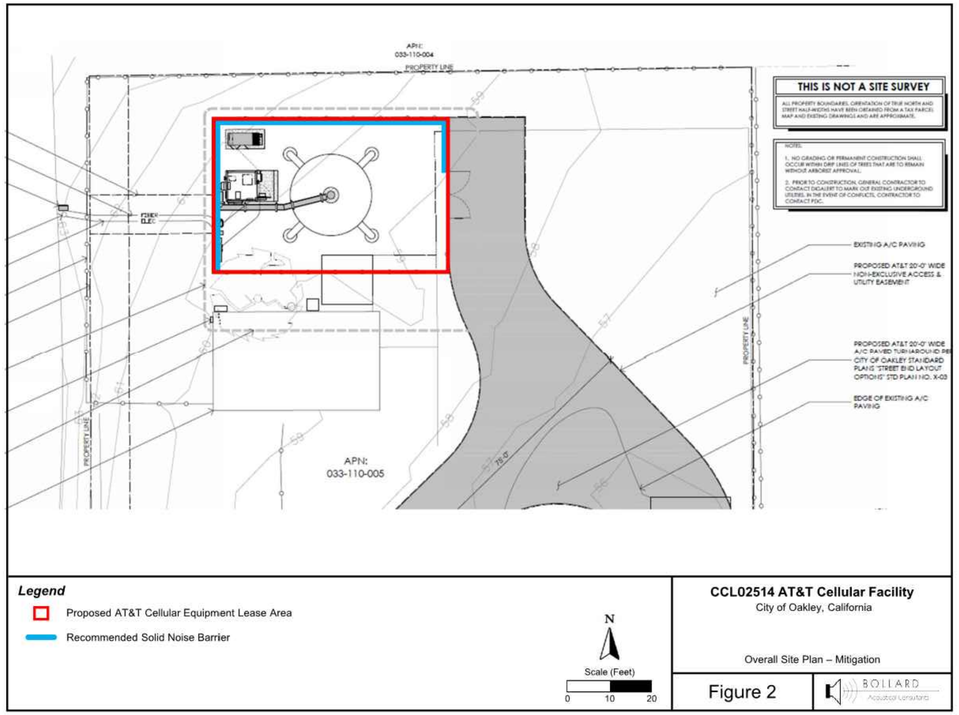
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:

NOISE STUDY

SHEET NUMBER:

GN-4



Legend

- Proposed AT&T Cellular Equipment Lease Area
- Recommended Solid Noise Barrier

N

Scale (Feet)
0 10 20

CCL02514 AT&T Cellular Facility
City of Oakley, California

Overall Site Plan – Mitigation

Figure 2

BOLLARD Acoustical Consultants

Conclusions & Recommendations

Project-related equipment noise exposure is expected to satisfy the applicable City of Oakley General Plan noise level criteria at the property lines of the nearest noise-sensitive uses provided that the following specific equipment noise mitigation measures are implemented:

1. A custom generator enclosure and the construction of a noise barrier along the facility lease area perimeter should be implemented. Figure 2 shows the location of the barrier. The barrier heights and associated interior to exterior transmission loss required of a custom acoustic enclosure for the generator are presented in Table 3.

   Barrier material and construction details for the noise barrier are provided in this report. The generator enclosure design should include sound absorbing panels on the interior wall and ceiling surfaces of the generator equipment shelter and should include a suitable engine exhaust muffler.

This concludes our environmental noise assessment for the proposed CCL02514 AT&T Cellular Facility in Oakley, California. Please contact BAC at (916) 663-0500 or darioq@bacnoise.com with any questions or requests for additional information.

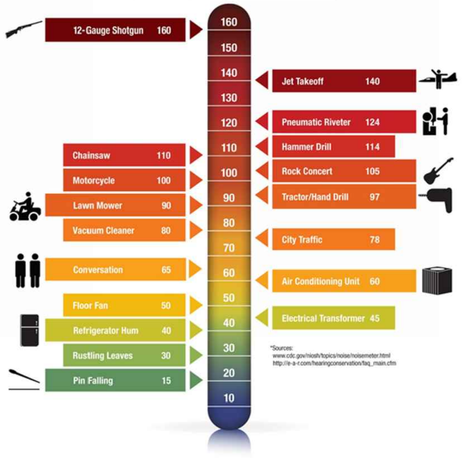
Appendix A
Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound. A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz.
IIC	Impact Insulation Class (IIC): A single-number representation of a floor/ceiling partition's impact generated noise insulation performance. The field-measured version of this number is the FIIC.
L_{dn}	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
L_{eq}	Equivalent or energy-averaged sound level.
L_{max}	The highest root-mean-square (RMS) sound level measured over a given period of time.
Loudness	A subjective term for the sensation of the magnitude of sound.
Masking	The amount (or the process) by which the threshold of audibility is for one sound is raised by the presence of another (masking) sound.
Noise	Unwanted sound.
Peak Noise	The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the "Maximum" level, which is the highest RMS level.
RT_{60}	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
STC	Sound Transmission Class (STC): A single-number representation of a partition's noise insulation performance. This number is based on laboratory-measured, 16-band (1/3-octave) transmission loss (TL) data of the subject partition. The field-measured version of this number is the FSTC.

BOLLARD Acoustical Consultants

Appendix B

Typical A-Weighted Sound Levels of Common Noise Sources
Decibel Scale (dBA)*



*Sources:
www.cdc.gov/niosh/topics/noise/noisemeter.html
http://e-a-r.com/hearingconservation/faq_main.cfm

Appendix C

Marvair
156 Seedling Drive
Cordele, Georgia 31015
229-273-0783

Sound Pressure Level for the Industrial Product Air Conditioners (dBA)

Distance From Unit (Feet)	Model Number					
	ECUA06ACA	ECUA08ACA	ECUA012ACA	ECUA018ACA		
5			51.5	62		
10			50.7	58		
20			47.8	55		
30			46.5	51		
40			45.6			
50			45.6			
60						
70						
80						

Notes: (1) Date: July 1,2019
(2) Background Sound Pressure Level: 41 dBA
(3) Sound Level Meter 1 Meter Above Ground Directly in Line with Outdoor Coil
(4) All units - 410A Refrigerant

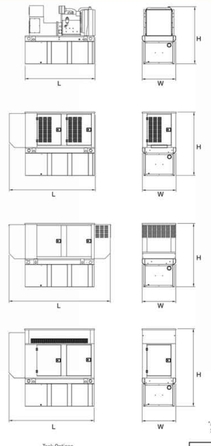
Appendix D

GENERAC | INDUSTRIAL POWER

SD030 dimensions, weights and sound levels

30 kW Diesel

5 of 5



OPEN SET

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	76	38	46	2060	82
20	54	76	38	59	2540	
48	132	76	38	71	2770	
77	211	76	38	83	2979	
109	300	93	38	87	3042	

STANDARD ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	95	38	50	2362	77
20	54	95	38	63	2842	
48	132	95	38	75	3072	
77	211	95	38	87	3281	
109	300	95	38	99	3344	

LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	113	38	50	2515	70
20	54	113	38	63	2995	
48	132	113	38	75	3029	
77	211	113	38	87	3434	
109	300	113	38	99	3497	

LEVEL 2 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dBA*
NO TANK	-	95	38	62	2529	68
20	54	95	38	75	3000	
48	132	95	38	87	3230	
77	211	95	38	99	3439	
109	300	95	38	153	3502	

*All measurements are approximate and for estimation purposes only. Weights are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

Tank Options

MDEQ	OPT
Florida DERM/DEP	OPT
Chicago Fire Code	OPT
IFC Certification	CALL
ULC	CALL

Other Custom Options Available from your Generac Industrial Power Dealer

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • generac.com

Appendix E
Photovoltaic Inverter Facility
Chain Link Fence Lined with Acoustical Vinyl Product

BOLLARD Acoustical Consultants

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San Ramon, California 94583

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COMPLETE Wireless Consulting, Inc.

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	07/13/21	100% ZD REV 1
	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

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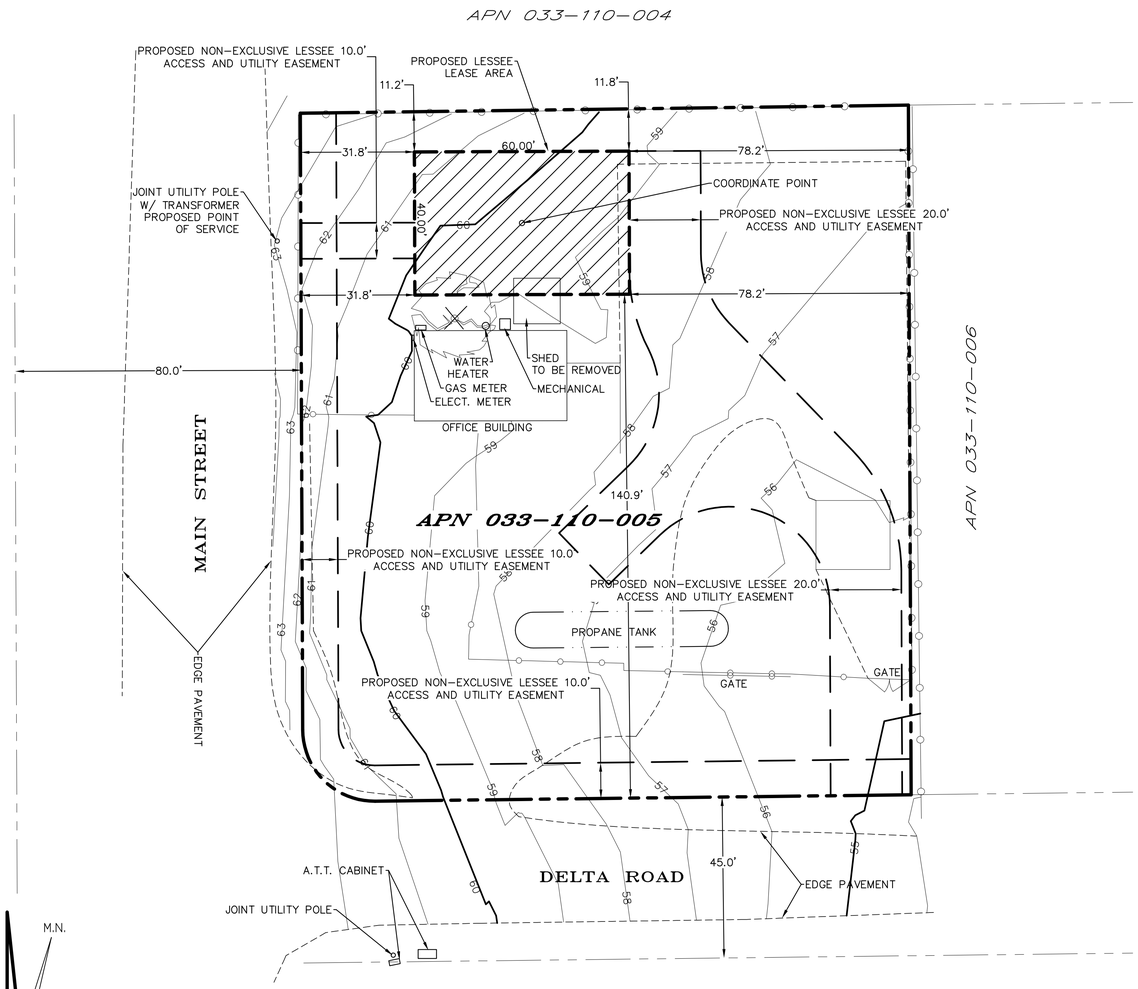
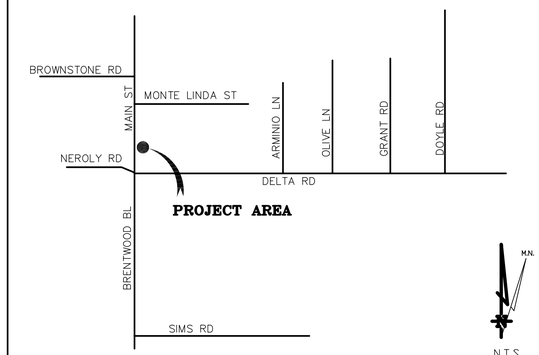
Architect:
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
NOISE STUDY

SHEET NUMBER:
GN-5



LEASE AREA DETAIL



Oakley, CA

VICINITY MAP

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

DATE OF SURVEY: 03-25-21

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, RCE 14803

LOCATED IN THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 2.40' FROM ELEVATIONS SHOWN.

FEMA FIRM: FLOOD ZONE X PER FIRM 06013C0355G, DATED 03-21-2017.

CONTOUR INTERVAL: 1 FT.

ASSESSOR'S PARCEL NUMBER: 033-110-005-7

LANDLORD(S): SUBURBAN PROPANE LP
P.O. BOX 206
WHIPPANY, NJ 07981

Project Name: CCL02514
Project Site Location: 30 Delta Road
Oakley, CA 94561
Contra Costa County

Date of Observation: 03-25-21

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Geo XT post processed with Pathfinder Office software.

Type of Antenna Mount: Proposed Monopole

Coordinates

Latitude: N 37°58'09.64" (NAD83) N 37°58'09.92" (NAD27)
Longitude: W 121°41'44.54" (NAD83) W 121°41'40.71" (NAD27)

Latitude: N 37.969344° (NAD83) N 37.969421° (NAD27)
Longitude: W 121.695707° (NAD83) W 121.694642° (NAD27)

ELEVATION of Ground at Structure (NAVD88) 59.5' AMSL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1226 HIGH STREET
AUBURN, CALIFORNIA 95603
phone: (530) 885-0426
fax: (530) 823-1309

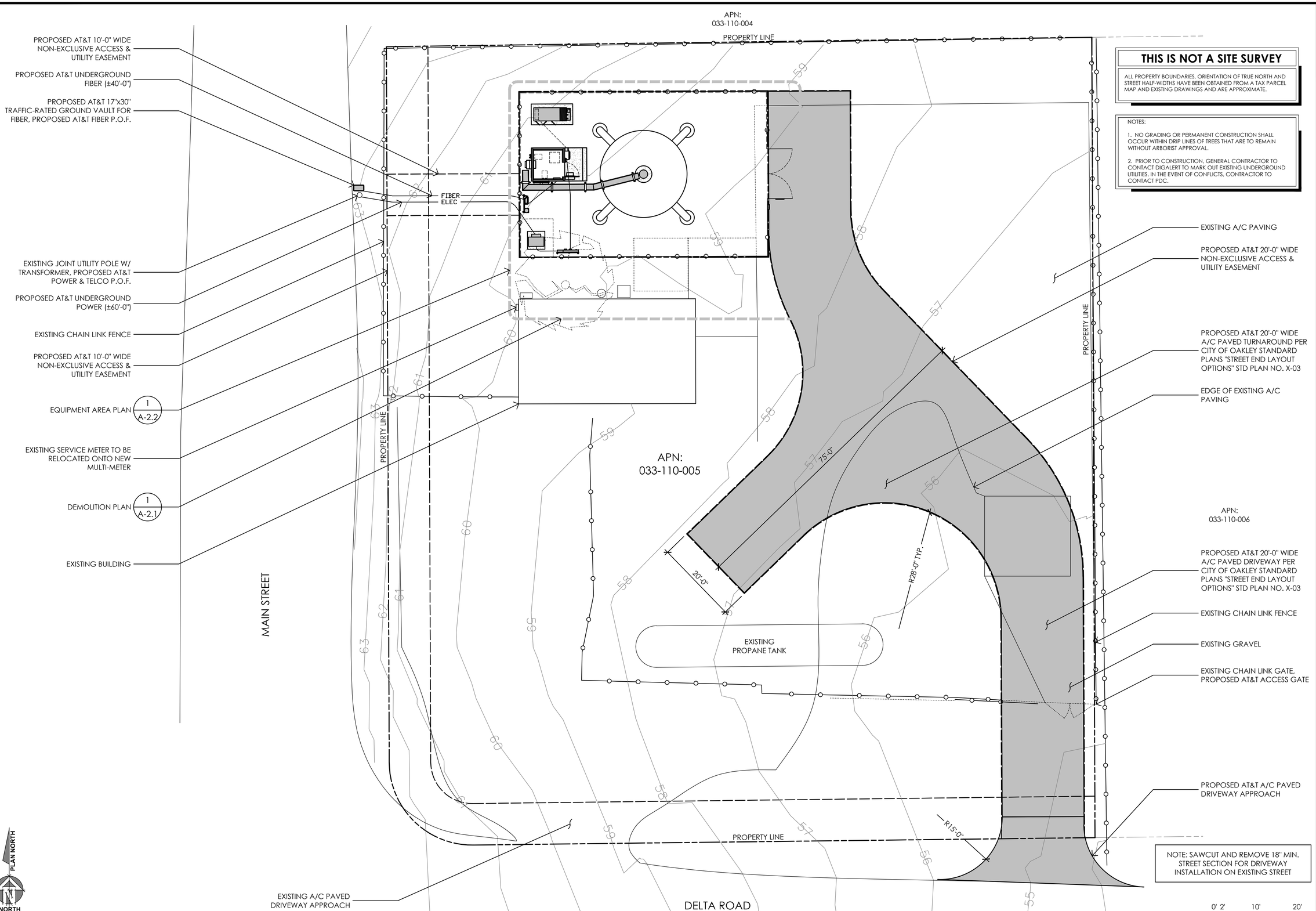
AT&T MOBILITY

CCL02514
30 Delta Road
Oakley, CA 94561

PLOT PLAN AND SITE TOPOGRAPHY

REVISIONS		
03-29-21	Preliminary Drawing	dg
05-18-21	rev. esmt.	dg
05-20-21	rev. esmt.	dg

Sheet
C-1



1 OVERALL SITE PLAN
1"=10'

THIS IS NOT A SITE SURVEY

ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.

NOTES:

1. NO GRADING OR PERMANENT CONSTRUCTION SHALL OCCUR WITHIN DRIP LINES OF TREES THAT ARE TO REMAIN WITHOUT ARBORIST APPROVAL.

2. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIGALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES, IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT PDC.

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	07/13/21	100% ZD REV 1
	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

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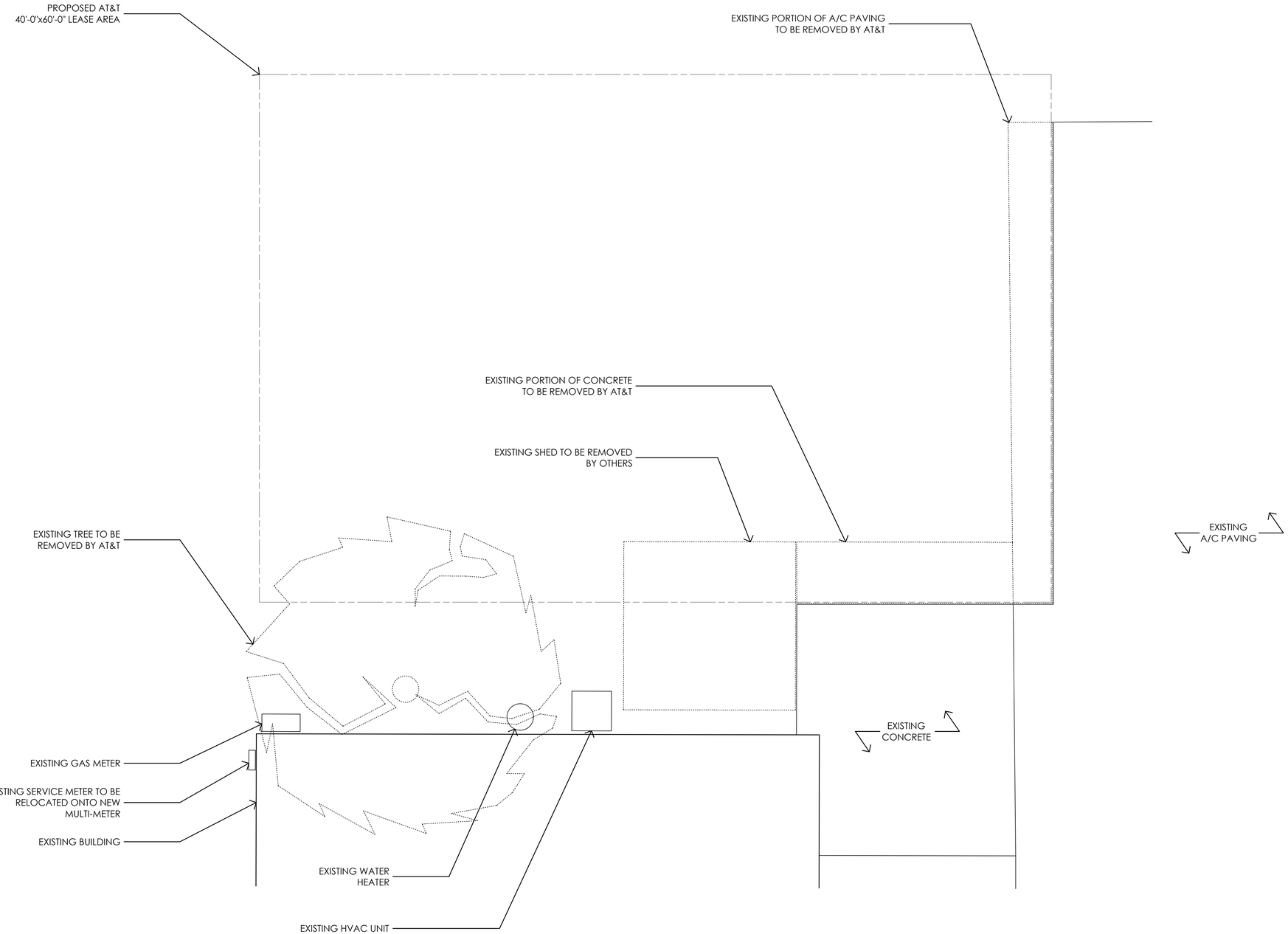
Architect:
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1.1



PLAN NORTH

NORTH

1 DEMOLITION PLAN
1/4" = 1'-0"

0' 1' 5' 10'
1/4" = 1'-0"

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	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

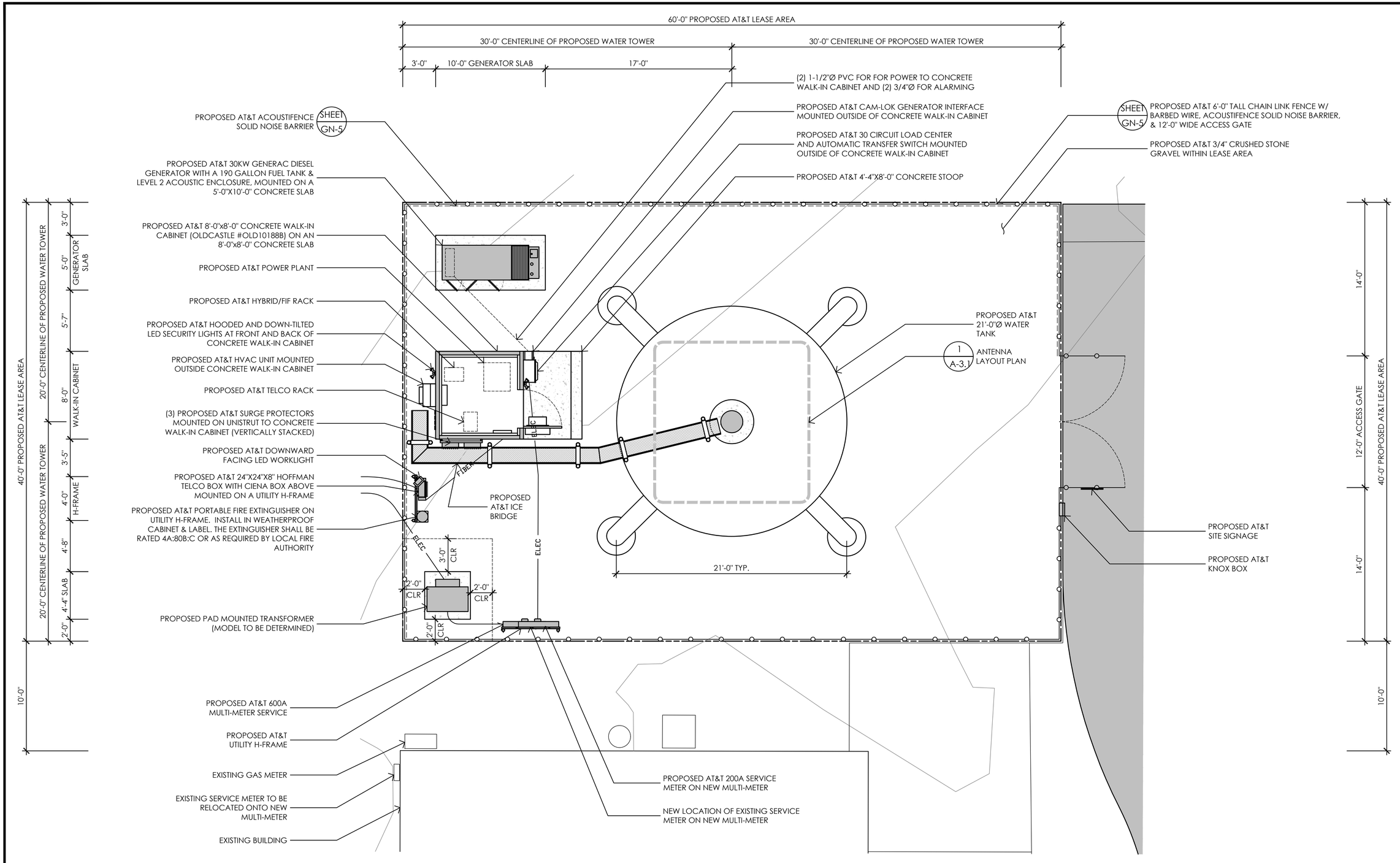
Licensee:

Architect:

MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
DEMOLITION
PLAN

SHEET NUMBER:
A-2.1



1 EQUIPMENT AREA PLAN
1/4" = 1'-0"

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	04/05/21	90% ZD

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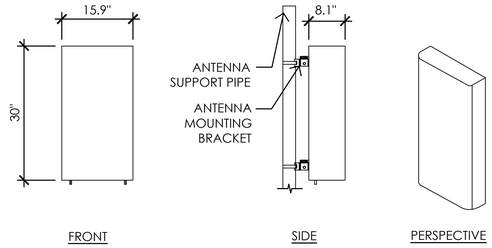
SHEET TITLE:
EQUIPMENT AREA PLAN

SHEET NUMBER:
A-2.2

EQUIPMENT SUBJECT TO CHANGE



ANTENNA = ERICSSON (AIR6449 N77)
WEIGHT = 81.6 LBS
DIMENSIONS = 30.4" (H) x 15.9" (W) x 8.1" (D)

5 PROPOSED ANTENNA SPEC
3/4" = 1'-0"

RF SCHEDULE

SECTOR		ANTENNA MODEL NO.	AZIMUTH	CENTERLINE	RRH	TMA	FIBER LENGTH	COAX LENGTH	JUMPER TYPE	RRU NO.
ALPHA	A1	COMMSCOPE - NNHH-65C-R4	30°	± 85'-0"	(1) 4449 B5/B12 / (1) 8843 B2/B66A	-	± 120'-0"	-	LDF4	(2)
	A2	COMMSCOPE - NNHH-65C-R4	30°	± 85'-0"	(1) 4478 B14	-	± 120'-0"	-	LDF4	(1)
	A3	ERICSSON - AIR6449 N77	30°	± 85'-0"	-	-	± 120'-0"	-	LDF4	-
	A4	COMMSCOPE - NNHH-65C-R4	30°	± 85'-0"	(1) RRUS-E2 B29 / (1) 4415 B30	-	± 120'-0"	-	LDF4	(2)
BETA	B1	COMMSCOPE - NNHH-65C-R4	270°	± 85'-0"	(1) 4449 B5/B12 / (1) 8843 B2/B66A	-	± 120'-0"	-	LDF4	(2)
	B2	COMMSCOPE - NNHH-65C-R4	270°	± 85'-0"	(1) 4478 B14	-	± 120'-0"	-	LDF4	(1)
	B3	ERICSSON - AIR6449 N77	270°	± 85'-0"	-	-	± 120'-0"	-	LDF4	-
	B4	COMMSCOPE - NNHH-65C-R4	270°	± 85'-0"	(1) RRUS-E2 B29 / (1) 4415 B30	-	± 120'-0"	-	LDF4	(2)
GAMMA	C1	COMMSCOPE - NNHH-65C-R4	150°	± 85'-0"	(1) 4449 B5/B12 / (1) 8843 B2/B66A	-	± 120'-0"	-	LDF4	(2)
	C2	COMMSCOPE - NNHH-65C-R4	150°	± 85'-0"	(1) 4478 B14	-	± 120'-0"	-	LDF4	(1)
	C3	ERICSSON - AIR6449 N77	150°	± 85'-0"	-	-	± 120'-0"	-	LDF4	-
	C4	COMMSCOPE - NNHH-65C-R4	150°	± 85'-0"	(1) RRUS-E2 B29 / (1) 4415 B30	-	± 120'-0"	-	LDF4	(2)

RF DATA SHEET v2.00 DATED 04/16/2021 NOTE: ANTENNA POSITIONS ARE LEFT TO RIGHT FROM FRONT OF ANTENNA EQUIPMENT IS PRELIMINARY AND SUBJECT TO CHANGE.

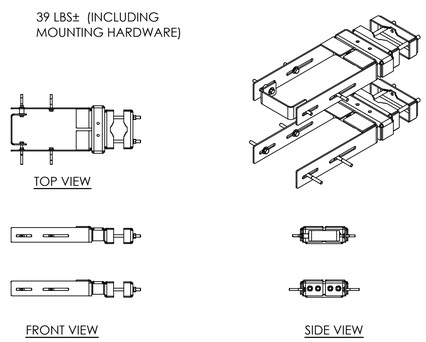
2 RF SCHEDULE
NO SCALE

SPECIFICATIONS:

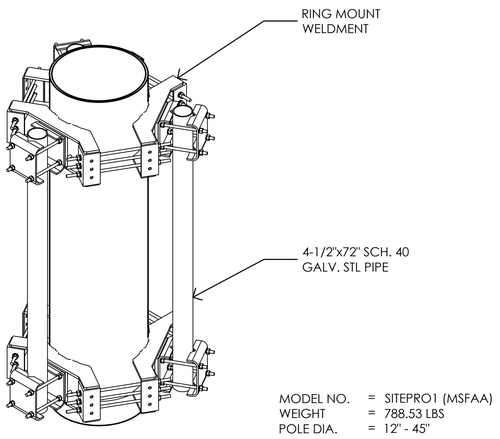
MATERIAL: HOT-DIPPED GALVANIZED STEEL

DIMENSIONS:
HEIGHT: 13.4 IN
WIDTH: 8.4 IN.
LENGTH: 18.2 IN.

WEIGHT: 39 LBS± (INCLUDING MOUNTING HARDWARE)

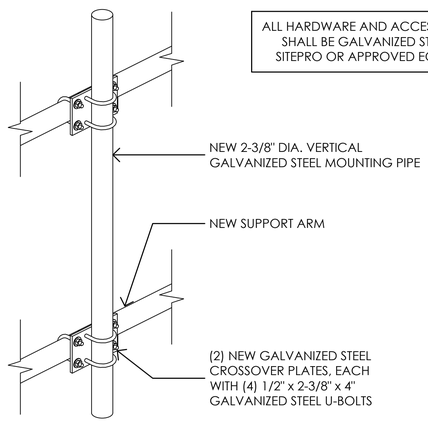


4 BACK TO BACK RRH MOUNTING (COMMSCOPE PART#: RR-B2B-AR)
1-1/2"= 1'-0"

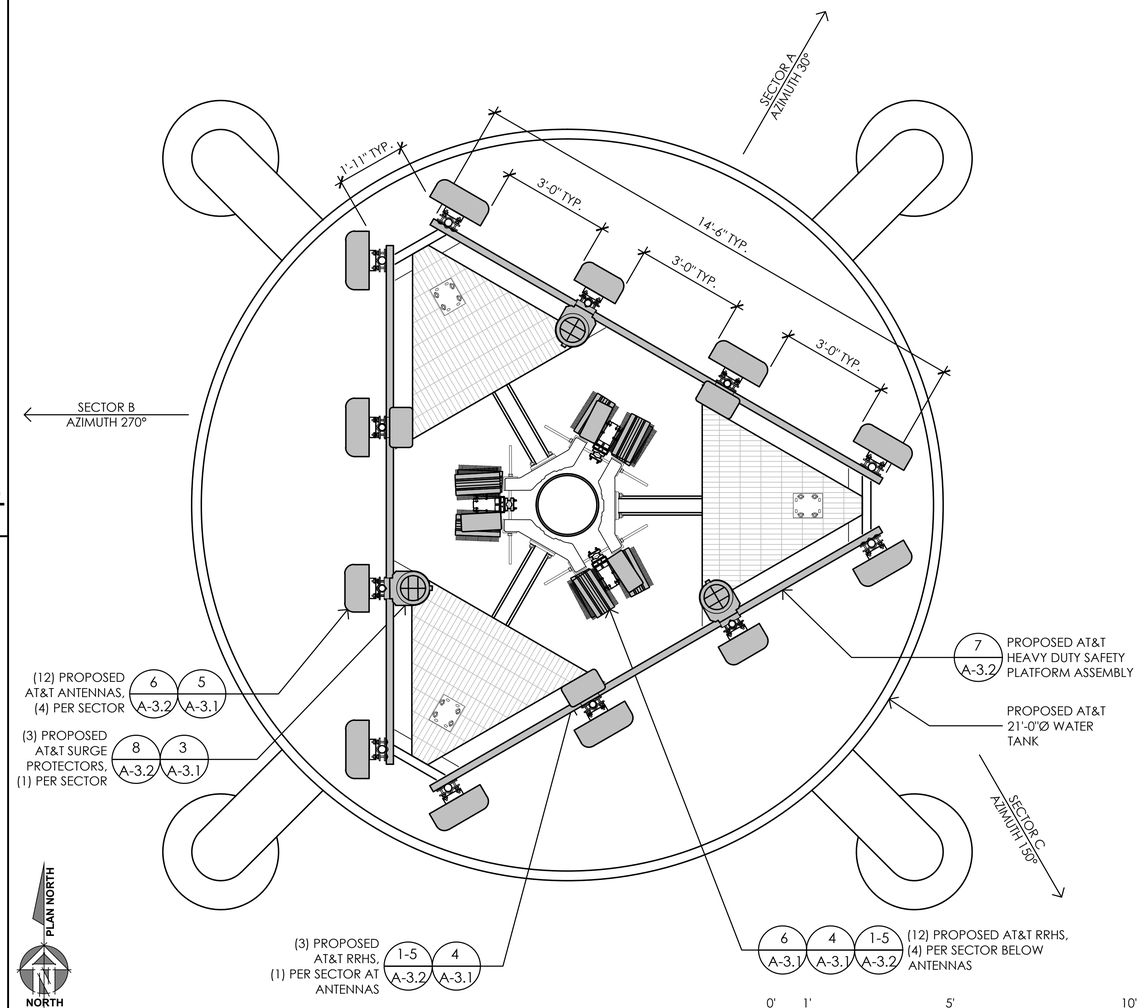


MODEL NO. = SITEPRO1 (MSFAA)
WEIGHT = 788.53 LBS
POLE DIA. = 12' - 45"

6 PROPOSED MONOPOLE SECTOR FRAME ATTACHMENT
3/4" = 1'-0"



3 CROSSOVER PLATE DETAIL
1-1/2"= 1'-0"



1 ANTENNA LAYOUT PLAN
1/2" = 1'-0"

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REV	DATE	DESCRIPTION
	08/11/21	100% ZD REV 2
	07/13/21	100% ZD REV 1
	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

Licensee:

Architect:
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
ANTENNA PLAN, SCHEDULE, & DETAILS

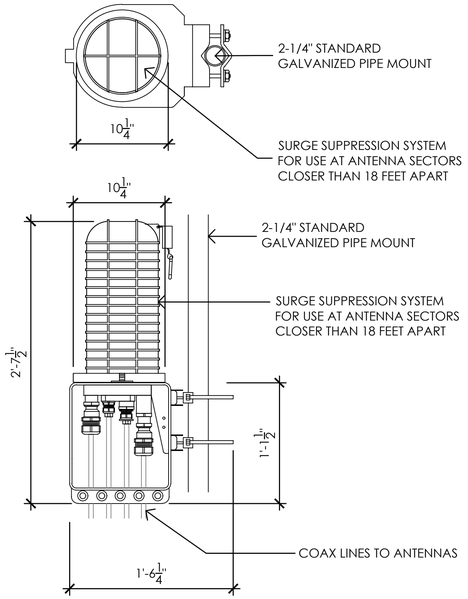
SHEET NUMBER:
A-3.1

RAYCAP DC9-48-60-24-8C-EV SURGE SUPPRESSION SOLUTION

COLOR: BLACK/SILVER

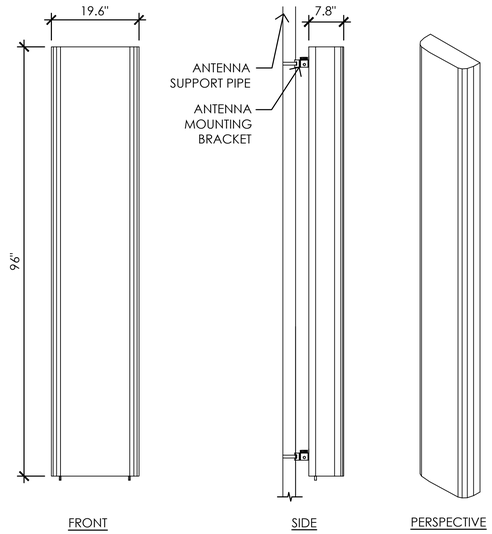
DIMENSIONS: 10.25" DIA X 2'-7.5" TALL W/ 1'-1.5' BASE

WEIGHT: 26.2 LBS.±



8 DC SURGE SUPPRESSION (SQUID)
1-1/2"= 1'-0"

EQUIPMENT SUBJECT TO CHANGE



ANTENNA = COMMSCOPE (NNHH-65C-R4)
WEIGHT = 99.2 LBS
DIMENSIONS = 96" (H) x 19.6" (W) x 7.8" (D)

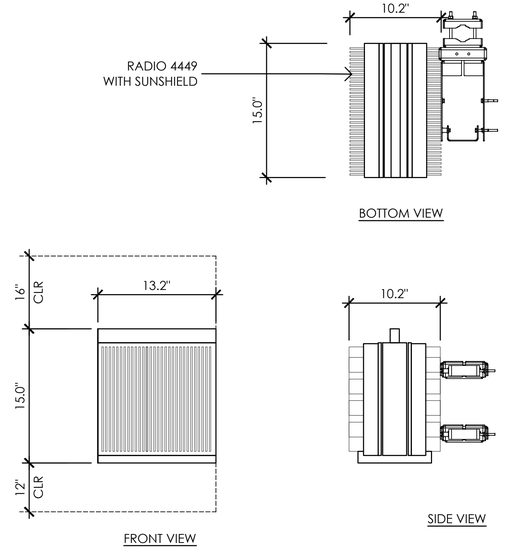
6 PROPOSED ANTENNA SPEC
3/4" = 1'-0"

ERICSSON RADIO 8843 B2/B66A REMOTE RADIO UNIT

COLOR: WHITE

DIMENSIONS: 15" TALL X 13.2" WIDE X 10.2" DEEP (INCLUDING SUNSHIELD)

WEIGHT: 75 LBS± (INCLUDING MOUNTING HARDWARE)



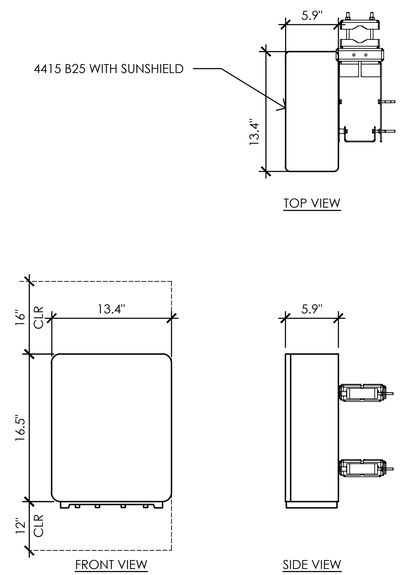
4 ERICSSON RADIO 8843 B2/B66A REMOTE RADIO UNIT
1-1/2"= 1'-0"

ERICSSON RADIO 4415 B25 REMOTE RADIO UNIT

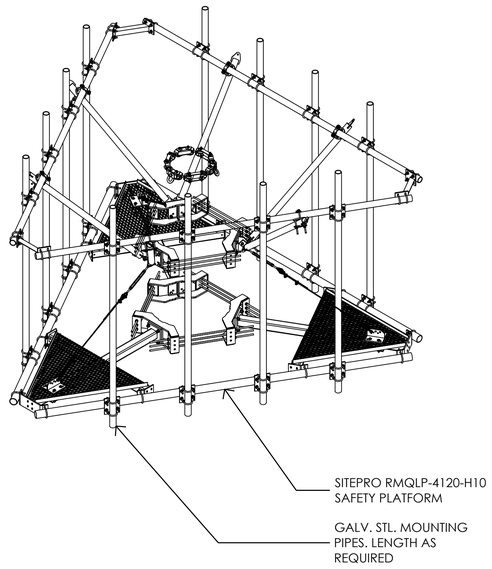
COLOR: WHITE

DIMENSIONS: 16.5" TALL X 13.4" WIDE X 5.9" DEEP (INCLUDING SUNSHIELD)

WEIGHT: 46 LBS.± (INCLUDING MOUNTING HARDWARE)



2 ERICSSON RADIO 4415 B25/B30 REMOTE RADIO UNIT
1-1/2"= 1'-0"



THIS IS AN AT&T-APPROVED MOUNT AND IS DESIGNED BASED ON SITE-SPECIFIC CRITERIA. ABSOLUTELY NO SUBSTITUTIONS ARE PERMISSIBLE WITHOUT APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

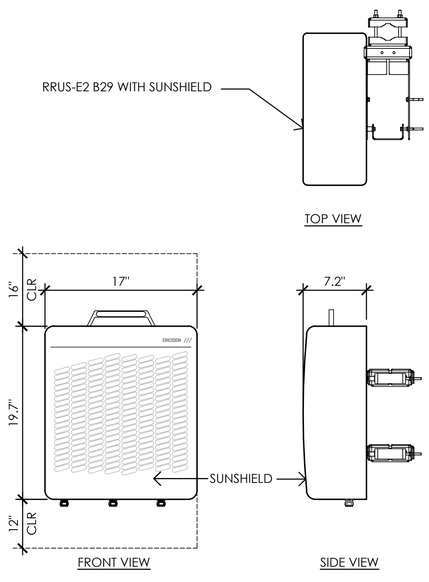
7 SITEPRO SAFETY PLATFORM RMQLP-4120-H10
NO SCALE

ERICSSON RRUS-E2 B29 REMOTE RADIO UNIT

COLOR: WHITE

DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP (INCLUDING SUNSHIELD)

WEIGHT: +/- 50 LBS. (INCLUDING MOUNTING HARDWARE)



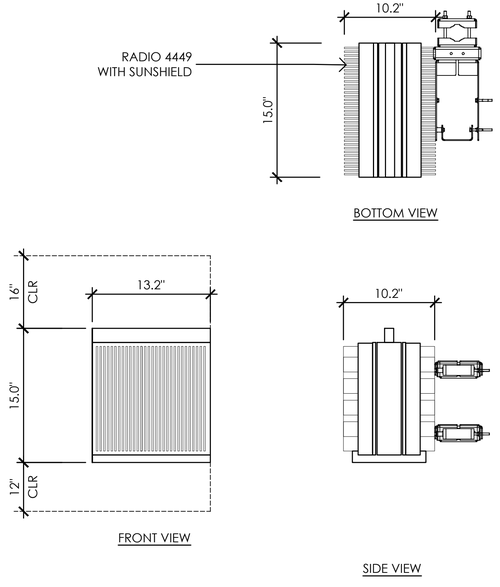
5 ERICSSON RRUS-E2 B29 REMOTE RADIO UNIT
1-1/2"= 1'-0"

ERICSSON RADIO 4449 B5/B12 REMOTE RADIO UNIT

COLOR: WHITE

DIMENSIONS: 15" TALL X 13.2" WIDE X 10.2" DEEP (INCLUDING SUNSHIELD)

WEIGHT: 75 LBS± (INCLUDING MOUNTING HARDWARE)



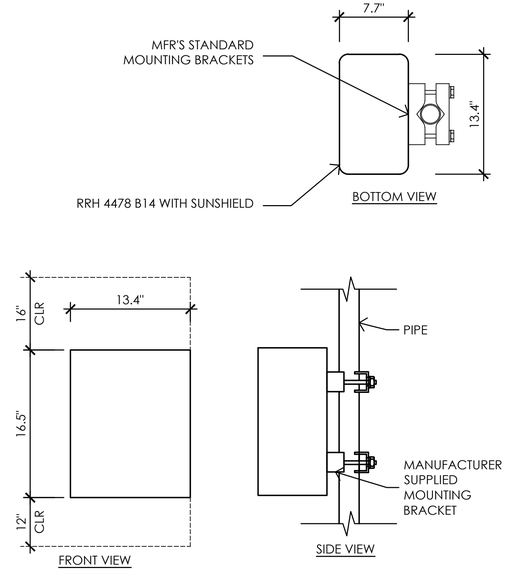
3 ERICSSON RADIO 4449 B5/B12 REMOTE RADIO UNIT
1-1/2"= 1'-0"

ERICSSON RRH 4478 B14 REMOTE RADIO UNIT

COLOR: WHITE

DIMENSIONS: 16.5" TALL X 13.4" WIDE X 7.7" DEEP (INCLUDING SUNSHIELD)

WEIGHT: +/- 59.9 LBS. (INCLUDING MOUNTING HARDWARE)



1 ERICSSON RADIO 4478 B14 REMOTE RADIO UNIT
1-1/2"= 1'-0"

Issued For:
CCL02514
MAIN ST & BROWNSTONE RD
30 DELTA ROAD
OAKLEY, CA 94561

PREPARED FOR
at&t
2600 Camino Ramon
San Ramon, California 94583

Vendor:
COMPLETE Wireless Consulting, Inc.

AT&T SITE NO:	CCL02514
PROJECT NO:	162.2788
DRAWN BY:	TLS
CHECKED BY:	SV

REV	DATE	DESCRIPTION
	08/11/21	100% ZD REV 2
	07/13/21	100% ZD REV 1
	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

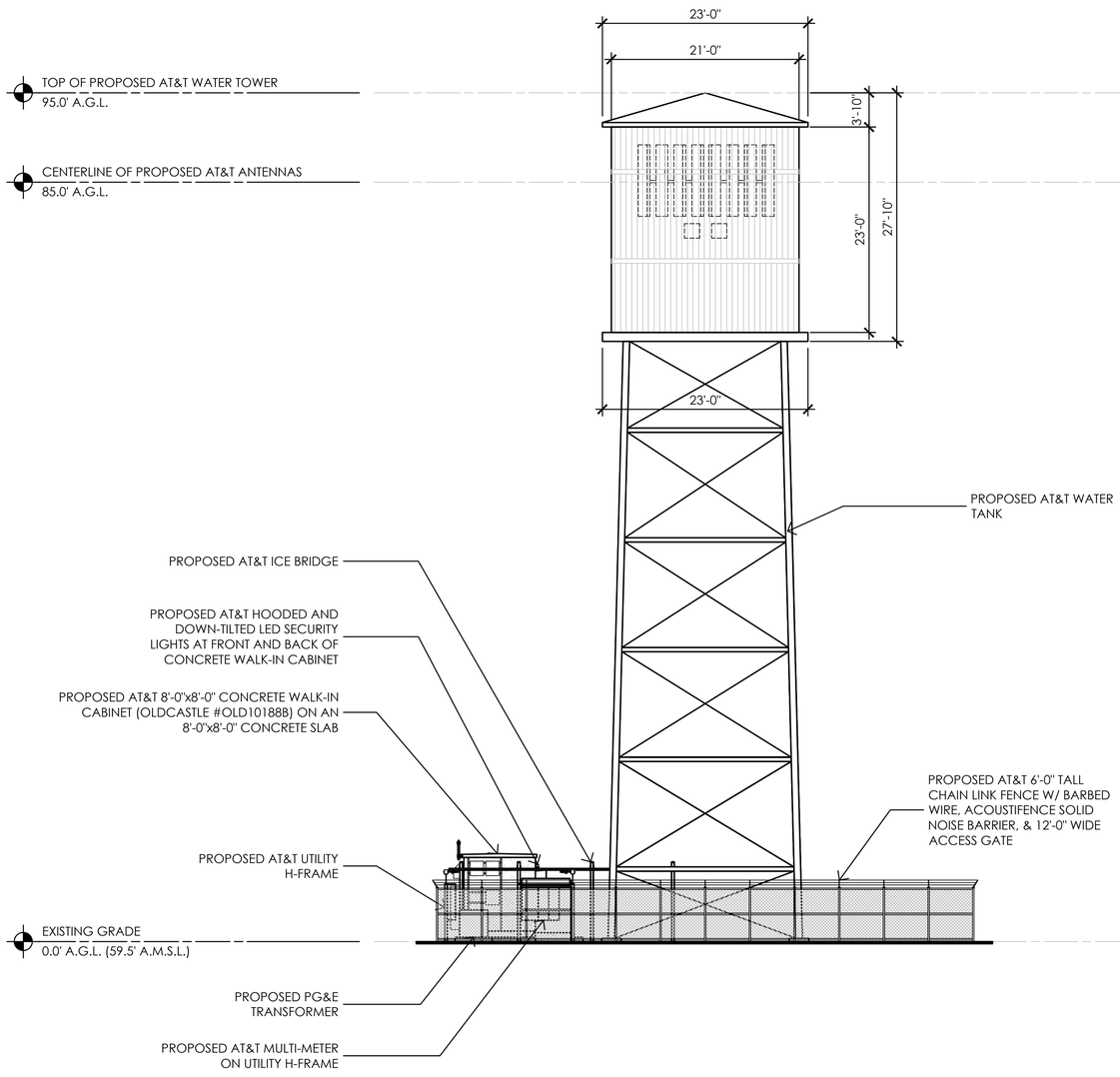
Licensee:

Architect:
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

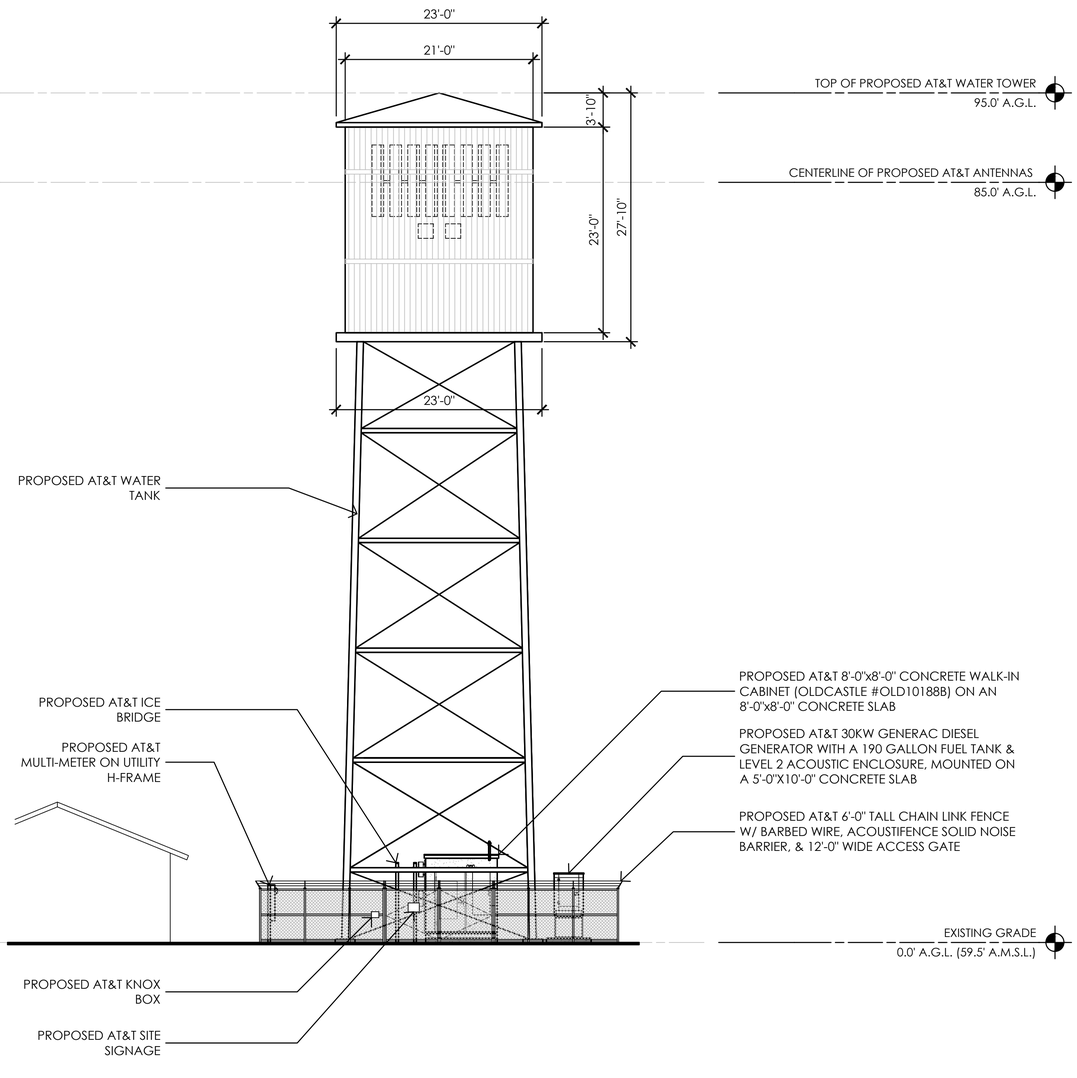
SHEET TITLE:
RRH DETAILS

SHEET NUMBER:
A-3.2

NOTE: AT&T TO INSTALL (3) 24 PAIR FIBER TRUNKS & (9) DC POWER TRUNKS IN (6) 2" INNER DUCTS WITHIN THE MONOPOLE



2 SOUTH ELEVATION
1/8" = 1'-0"



1 EAST ELEVATION
1/8" = 1'-0"

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MAIN ST & BROWNSTONE RD

30 DELTA ROAD
OAKLEY, CA 94561

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at&t

2600 Camino Ramon
San Ramon, California 94583

Vendor:

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	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

Licensee:

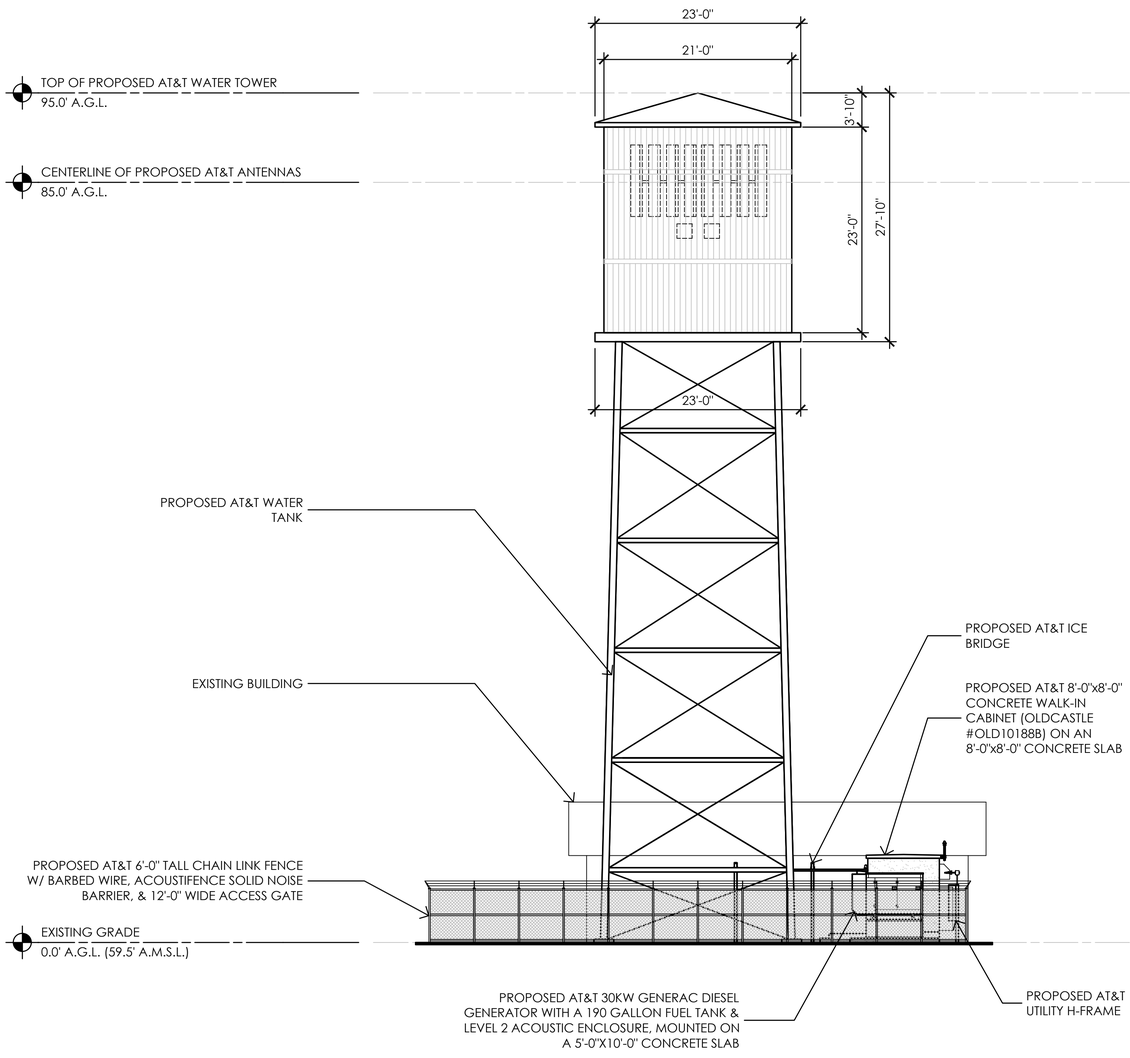
Architect:

MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

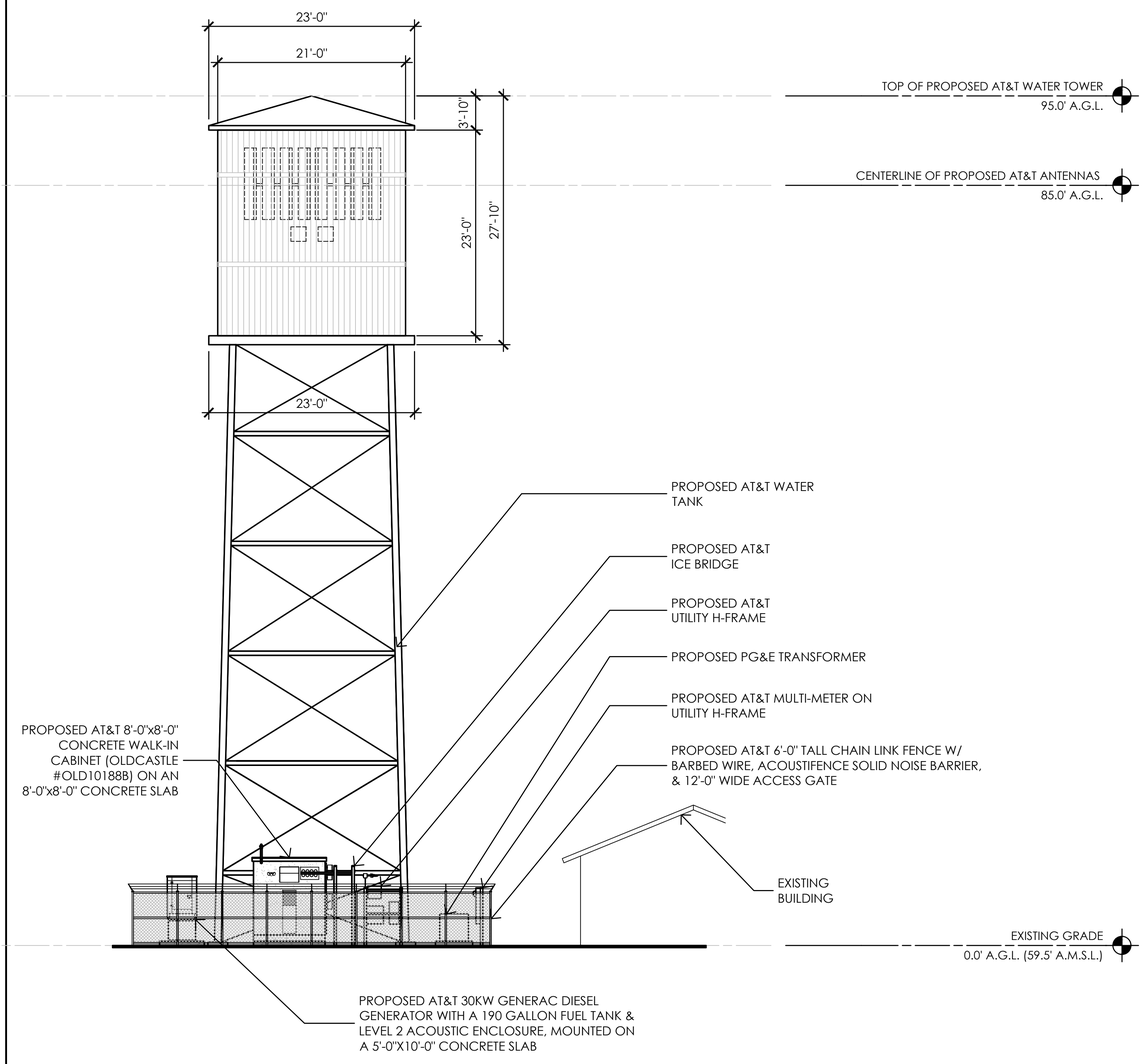
SHEET TITLE:
PROPOSED ELEVATIONS

SHEET NUMBER:
A-4.1

NOTE: AT&T TO INSTALL (3) 24 PAIR FIBER TRUNKS
& (9) DC POWER TRUNKS IN (6) 2" INNER DUCTS
WITHIN THE MONOPOLE



2 NORTH ELEVATION
1/8" = 1'-0"



1 WEST ELEVATION
1/8" = 1'-0"

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MAIN ST & BROWNSTONE RD

30 DELTA ROAD
OAKLEY, CA 94561

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at&t

2600 Camino Ramon
San Ramon, California 94583

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	05/20/21	100% ZD
	04/20/21	90% ZD REV 1
	04/05/21	90% ZD

Licensee:

Architect:

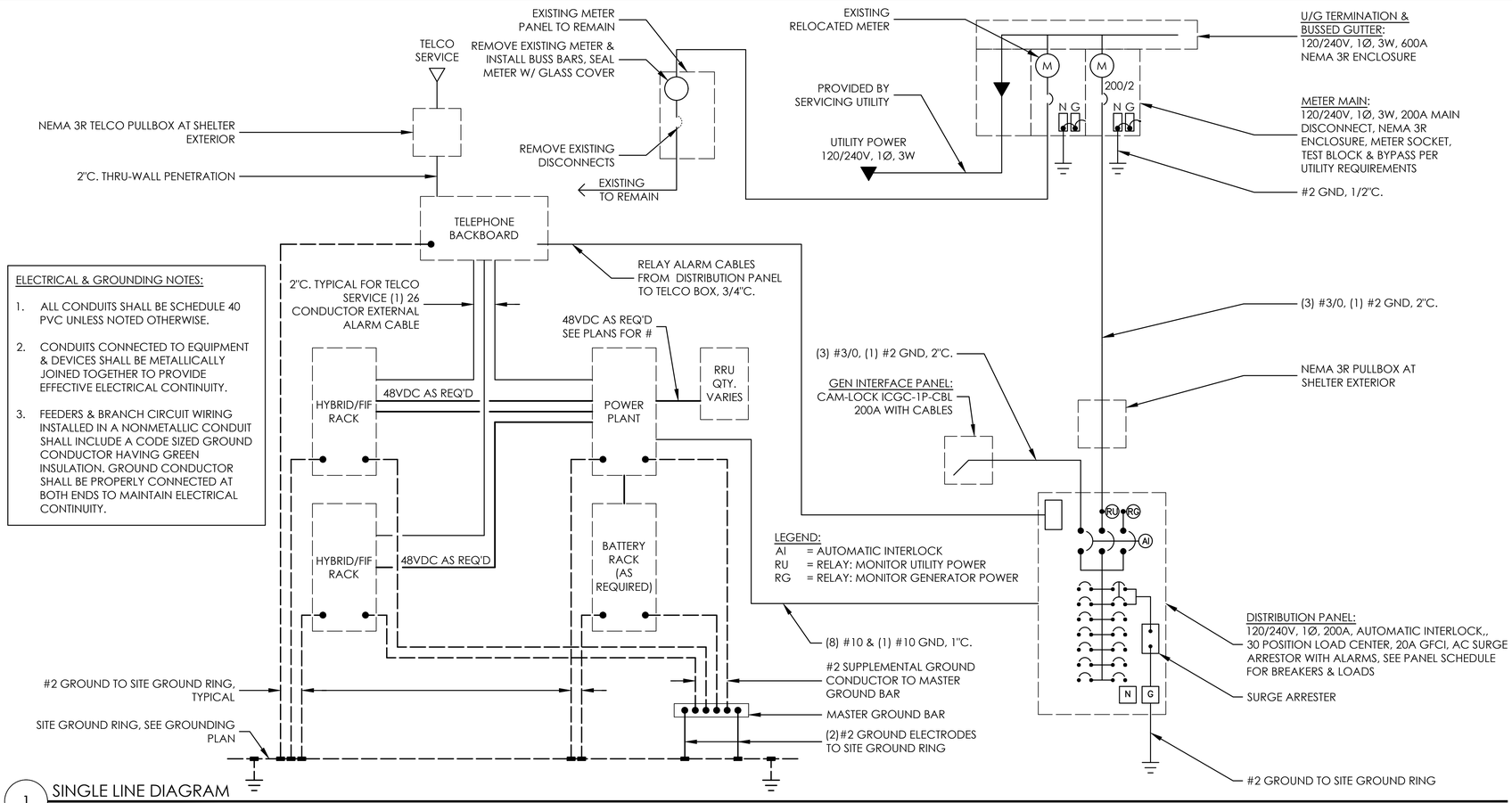
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
PROPOSED ELEVATIONS

SHEET NUMBER:
A-4.2

PANEL CIRCUIT AND LOAD SCHEDULE									DESIGNATION: PANEL "AT&T"									
LOAD			LOAD PER PHASE (VA) PHASE		TRIP	POLES	WIRE		WIRE	POLES	TRIP	LOAD PER PHASE (VA) PHASE		LOAD			
	DESCRIPTION	QTY	UNIT VA	A	B							A	B	UNIT VA	QTY	DESCRIPTION	
1	RECTIFIER 1	1	480	480		30	2	10				480		480	1	RECTIFIER 7	2
3		1	480		480								480	480	1		4
5	RECTIFIER 2	1	480	480		30	2	10				480		480	1	RECTIFIER 8	6
7		1	480		480								480	480	1		8
9	RECTIFIER 3	1	480	480		30	2	10				0		0	1	RECTIFIER 9 (OPTIONAL)	10
11		1	480		480								0	0	1		12
13	RECTIFIER 4	1	480	480		30	2	10				0		0	1	RECTIFIER 10 (OPTIONAL)	14
15		1	480		480								0	0	1		16
17	RECTIFIER 5	1	480	480		30	2	10				0		0	1	RECTIFIER 11 (OPTIONAL)	18
19		1	480		480								0	0	1		20
21	RECTIFIER 6	1	480	480		30	2	10				0		0	1	RECTIFIER 12 (OPTIONAL)	22
23		1	480		480								0	0	1		24
25	HVAC #1	1	2850	2850		25	2	10				212		212	1	LIGHTS, RECEPTACLE	26
27		1	2850		2850								240	240	1	GEN BATTERY CHARGER	28
29	GFCI RECEPTACLE	1	180	180								800		800	1	GEN BATTERY HEATER	30
	Subtotal			5910	5730							1972	1200	Subtotal			
Voltage:	120/240 1 ph 3w			AIC:	@METER MAIN: 22,000									TOTAL PHASE A (KVA)		7.88	
Bus:	200 amps			Main:	BREAKER									TOTAL PHASE B (KVA)		6.93	
Enclosure:	NEMA 3R Outdoor			Mount:	Surface									TOTAL KVA =		14.81	
														Total Amperage =		61.72	

2 EQUIPMENT A/C POWER SCHEDULE
NTS



ELECTRICAL & GROUNDING NOTES:

1. ALL CONDUITS SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE.
2. CONDUITS CONNECTED TO EQUIPMENT & DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
3. FEEDERS & BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUND CONDUCTOR HAVING GREEN INSULATION. GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.

1 SINGLE LINE DIAGRAM
NO SCALE

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	04/05/21	90% ZD

Licensee:

Architect:
MST ARCHITECTS
1520 River Park Drive
Sacramento, California 95815

SHEET TITLE:
POWER SINGLE LINE DIAGRAM

SHEET NUMBER:
E-3